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Measurement of ϕ_s at LHCb

Monday 6 May 2013 14:15 (15 minutes)

The study of CP violation in B_s oscillations is one of the key goals of the LHCb experiment. Effects are predicted to be very small in the Standard Model but can be significantly enhanced in many models of new physics. We present the world's best measurement of the CP-violating phase ϕ_s using $B_0 \rightarrow J/\psi\phi$ and $B_0 \rightarrow J/\psi\pi\pi$ decays, and a first study of mixing-induced CP violation in the decay $B_0 \rightarrow \phi\phi$.

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